Agricultural Marketing Service STOP 0248 – Room 2628-S 1400 Independence Avenue SW. Washington, D.C. 20250-0248 MGC Instruction 611 September 24, 2001 Page 1 of 3

WITHDRAWAL AND PREPARATION OF SAMPLES FOR LABORATORY FAT ANALYSIS

(Ground, linked, and other non-canned products)

Purpose

This instruction defines the Meat Grading and Certification (MGC) Branch procedures for the selection and preparation of samples for laboratory fat analysis.

Policy

It is the policy of the MGC Branch to always select samples in a statistically sound manner, maintain sample integrity, and prepare samples for laboratory analysis in accordance with procedures approved by the Association of Official Analytical Chemists (AOAC).

Procedures

Contractors Will:

- 1. Provide lab sample jars capable of preventing loss or gain of moisture. Jars **must** meet the following specifications:
 - a. Polypropylene white (or clear) 6-ounce (70mm) jar.
 - b. Lid can be metal or plastic and must be a screw-on type.
- 2. Provide appropriate facilities and preparation equipment for preparing samples that includes:
 - a. For USDA purchases, a commercial Food Processor approved by the AOAC (i.e., Robot Coupe or equivalent must be used). **Note:** All fat samples not prepared using an AOAC food processors or equivalent will be subject to a \$45.00 per sample processing fee by the AMS Laboratory.
 - b. Household spatula, plastic or rubber, with a 2-inch by 4-inch blade.
 - c. Plastic bags, knives, etc.
- 3. Provide adequate and secure freezer storage facilities for original and reserve samples during production.
- 4. Provide a plant employee to perform the sampling and sampling preparation procedures, and to operate and clean the food processor. MGC Branch employee will closely monitor this process.
- 5. Pay for all costs associated with the laboratory analysis.

Assigned MGC Branch Employees Will:

- 1. Randomly select a minimum of a 2-pound sample from each of 4 randomly selected, filled shipping containers. (Larger samples may be required depending upon the model of AOAC-approved food processor used.)
- 2. Maintain absolute identity and security of samples by visual control or under either seal or lock at all times.

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- 3. Monitor preparation of the four samples.
- 4. Monitor placement of at least 2 pounds of sample material into the processor bowl.
- 5. Ensure that the sample material on the inner side wall and bottom of bowl are incorporated into the sample. Plant employee must exercise sufficient care to ensure a uniform distribution of fat and connective tissue by using the spatula to remove fat from the inside surface of the bowl and the connective tissue from around the blades.
- 6. Instruct the plant employee to interrupt processing and press the sample to the bottom of the bowl with the spatula and blend uniformly, if the sample consolidates as a ball above the blades.
- 7. Ensure that processing times, temperatures, and food processor speeds, once established, are documented in the Quality Manual since sample-processing methods may be different from plant to plant in obtaining a homogeneous mixture.
- 8. Ensure the bowl and blades have been thoroughly washed between each of the four samples.
 - WARNING!! Do not remove the cutter bowl lid or cutter bowl from base until motor has come to a full stop. Do not allow plant employee to put hand, finger, or any object into bowl while motor is running. Always have the plant employee unplug appliance before servicing or cleaning.
- 9. Ensure that jars are filled not less than ½ or not more than 2/3 full of prepared sample to facilitate the mixing of samples in lab jars by AMS Science and Technology personnel. Place prepared sample into each of the 3 lab sample jars designated and labeled as Lab Original, Reserve, and Vendor. **Do not tape the lid closed or apply a shield stamp to the lid.**
- 10. Complete the Sample Label Sticker (LS Form 108 or equivalent) and attach to the applicable lab sample jars for each designation.
- 11. Offer the vendor sample to the vendor after completion of the production lot. It is not necessary to place the vendor samples in a jar unless requested by the vendor.
- 12. Complete the MGC 110 electronic template located at \\\sdenvls0000a\\weblinks\\downloads\\templates2000.htm\). Examples of a blank and completed MGC 110 are attached.
- 13. Use the Official USDA Meat Grading Sample Bag to secure the original and reserve samples. The bag consists of two compartments (one for the Lab form MGC-110 and one for the samples). Follow the step-by-step instructions printed on the bag. Print the number of the Official Sample Bag on the Lab form (attached). The original samples must be solidly frozen prior to mailing. Sample bags must be secured at all times and must never come in direct contact with dry ice.
- 14. Place the bag into a FreezSafe insulated container (made by Polyfoam Packers Corporation) or equivalent container, with dry ice or frozen refrigerant ice packs. The contractor will provide containers. Fat samples from more than one production lot may be packed together. The Official USDA Meat Grading Sample Bag MUST NOT come in direct contact with dry ice. Dry ice will



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react with the bag causing the words "VOID Tampering Detected" to appear. Wrapping in paper towels, butcher paper, or similar materials will suffice.

- 15. **Not use shield stamp on outside of shipping containers.** Ship using only a guaranteed <u>next day</u> delivery (not 2-day delivery) carrier. Plant personnel will provide return address and postage labels so shipping containers will be returned via next day delivery to the applicant.
- 16. Ship each sample to ensure that the lab will **not** receive the samples on a Saturday, Sunday, Holiday, or non-workday.
- 17. Assure all fat samples are shipped to the appropriate lab:

Plants East of the Mississippi River	Plants West of the Mississippi River
USDA, AMS, Science and Technology	USDA, AMS, Science and Technology
610 North Main Street	107 South 4 th Street
Blakely, Georgia 31723	Madill, Oklahoma 73446
Phone (912) 723-4570	Phone (580) 795-5615
Fax (912)723-3294	Fax (405) 795-3645

- 18. Place reserve samples in a secure freezer, and retain until needed. If not utilized, return to vendor. Reserve samples are to be used for analysis only when:
 - a. The original is lost.
 - b. The laboratory cannot analyze the original sample.
 - c. Authorized by the purchaser.

When the reserve sample is analyzed, the results will be final.

Results and Recordkeeping

1. Each laboratory will Email the results to a designated Area and Office of Field Operations employee, who will be responsible for disseminating results in a timely manner to the contractor.

Larry R. Meadows, Chief Meat Grading and Certification Branch Livestock and Seed Program

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURE MARKETING SERVICE LIVESTOCK AND SEED PROGRAM	DATE SAMPLED		SAMPLE BAG NUMBER			
LIFEGI OUR AND SEED FRUGRAM	DATE MAILED		PRODUCTION CERTIFICATE NO.			
	DITTE WITHELD		T KOBOOTION	OEITH IOITE NO.		
LABORATORY SAMPLING FORM FOR MEAT PRODUCTS	DATE VENDOR NOT	TIFIED OF RESULTS	SPECIFICATION	ON / NAME OF PROD		NITY CODE
FORM FOR MILAT FRODUCTS	BATE VERBORITO	THE ST NESSENS	or Eon Toat to	ON / NAME OF TROE	JOO 1700 WINNOL	THE CODE
APPLICANT NUMBER			ANIALVOIG		/!! A DDI 10 A D	LE DOVEO
			ANALYSIS	REQUESTED (") FAT	(" APPLICAB	LE BOXES)
APPLICANT	ESTABLISHMENT NO.		I FAI			
				MOISTURE		
RECEIVER OR BUYER				SALT		
			OTHER			
SIGNATURE OF PERSON SAMPLING PRODUCT	NAME OF PERSON	SAMPLING PRODUCT (PRINT)		(SPECIFY) ORIGINAL		RESERVE
SEND LABORATORY RESULTS TO : (Name and addre.	ss)		CAMPLE	SAMPLE		SAMPLE
			SAMPLE 1			MOISTURE
			SAMPLE 2			
			SAMPLE 3			SALT
			SAMPLE 4			
			AVERAGE			
CONTRACT NO.	LOT NO. NO. OF UNITS PRODUCED		NO. OF POUNDS NO. OF SAM			PLES
COMMENTS / FINDINGS (RECORD RE	SULTS HERE FOR ANALYS	I SIS OTHER THAN FAT, MOISTURE, OR SALT)				
EQC CODE:		STORAGE FREEZER:				_
TIME IN FREEZER:						_
RESERVE MAILED:						
SHIPPING DATES:						
72 HOUR TEMP CHECK						
DATE: TEMP. 1						
EQC CODE: 2	<u> </u>					
TIME: <u>3</u>						

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UNITED STATES DEPA	ARTMENT OF AGRICULTURE	DATE SAMPLED		SAMPLE BAG NUMBER				
	MARKETING SERVICE ND SEED PROGRAM		3/1/2001	A026687				
		DATE MAILED		PRODUCTION CERTIFICATE NO.				
LABORATORY SAMPLING FORM FOR MEAT PRODUCTS		DATE VENDOR NOTIFIED OF RESULTS		C-0087973-4				
				SPECIFICATION / NAME OF PRODUCT/COMMODITY CODE IMPS 136 A608 GROUND BEEF (FINE) 10 LB CHUBS				
APPLICANT NUMBER		•			(,		
441101234			ANALYSIS REQUESTED ("X" APPLICABLE BOXES)					
		ESTABLISHMEN		Х	X FAT			
	RICAN MEATS TH 36TH ST. E. 68107	20420			MOISTURE			
RECEIVER OR BUYER USDA				SALT				
SIGNATURE OF PERSO	ON SAMPLING PRODUCT		ON SAMPLING PRODUCT (PRINT)	ł	OTHER (SPECIFY)			
		NED WIL	LIAMS	Х	ORIGINAL SAMPLE		RESERVE SAMPLE	
SEND LABORATORY R	ESULTS TO : (Name and ad	ddress)		SAMPLE 1			MOISTURE	
WILLARD GOAD - AREA SUPERVISOR USDA - MEAT GRADING AND CERTIFICATION BRANCH 4940 SOUTH 114TH ST. SUITE 3A OMAHA, NE 68137			SAMPLE 2					
			SAMPLE 3			SALT		
FAX RESU	JLTS TO: 402-592-79	992		SAMPLE 4				
				AVERAGE				
CONTRACT NO.		LOT NO.	NO. OF UNITS PRODUCED	NO. OF POU	INDS	NO. OF SAM	PLES	
12-02-1-1234		061	1000	40	-0,000		4	
COMMENTS / FINDINGS	S (RECORD RESI	JLTS HERE FOR ANALY	I SIS OTHER THAN FAT, MOISTURE, OR SALT)					
EQC CODE:	TE		STORAGE FREEZER:	U.S. COL	.D STORAGE		_	
TIME IN FREEZER:	0900						_	
RESERVE MAILED:								
SHIPPING DATES:								
l								
72 HOUR TEMP CHECK	<u>.</u>							
DATE:	TEMP. <u>1</u>	_						
EQC CODE:	2	_						
TIME:	3	_						

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MGC-110 (08-2001)

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UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURE MARKETING SERVICE	DATE SAMPLED		SAMPLE BAG NUMBER					
LIVESTOCK AND SEED PROGRAM	3/1/2001		A026689					
	DATE MAILED		PRODUCTION CERTIFICATE NO.					
LABORATORY SAMPLING			C-0087973-4					
FORM FOR MEAT PRODUCTS	DATE VENDOR NOTIFIED OF RESULTS		SPECIFICATION / NAME OF PRODUCT/COMMODITY CODE					
			IMPS 136 A608 GROUND BEEF (FINE) 10 LB CHUBS					
APPLICANT CODE								
441101234			ANALYSIS REQUESTED ("X" APPLICABLE BOXES)					
APPLICANT	ESTABLISHMENT NO.			FAT				
ALL AMERICAN MEATS 4501 SOUTH 36TH ST.	4501 SOUTH 36TH ST.			MOISTURE				
OMAHA NE. 68107 RECEIVER OR BUYER				SALT				
USDA				OTHER	*SEE C	OMMENTS		
SIGNATURE OF PERSON SAMPLING PRODUCT	NAME OF PERSON SAMPLING PRODUCT (PRINT)		X	(SPECIFY) ORIGINAL	T	RESERVE		
	NED WIL	LIAMS	Х	SAMPLE		SAMPLE		
SEND LABORATORY RESULTS TO : (Name and address)						MOISTURE		
WILLARD GOAD - AREA SUPI USDA - MEAT GRADING AND	SAMPLE 2							
4940 SOUTH 114TH ST. SUITE 3A OMAHA, NE 68137				SALT		SALT		
FAX RESULTS TO: 402-592-7992			AVERAGE					
CONTRACT NO.	LOT NO.	NO. OF UNITS PRODUCED	NO. OF POU	NDS	NO. OF SAMPLES			
12-02-1- 1234	061	1000	40,000		1			
COMMENTS / FINDINGS (RECORD RES	ULTS HERE FOR ANALY	SIS OTHER THAN FAT, MOISTURE, OR SAL	_T)		1			
* STANDARD PLATE COUNT								
TOTAL COLIFORMS								
E. COLI								
SALMONELLA								
COAGULASE POSITIVE STAPH	IYLOCOCCI							

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